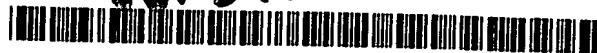


(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/549804



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083457 A1

(51) International Patent Classification⁷: C12Q 1/68

(21) International Application Number:
PCT/CA2004/000424

(22) International Filing Date: 19 March 2004 (19.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/455,550 19 March 2003 (19.03.2003) US

(71) Applicant (for all designated States except US): THE
UNIVERSITY OF BRITISH COLUMBIA [CA/CA];
University-Industry Liaison Office, 103-6190 Agronomy
Road, Vancouver, British Columbia V6T 1Z3 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RUSSELL, James,
A. [CA/CA]; 1963 West 35th Avenue, Vancouver, British
Columbia V6M 1H8 (CA). WALLEY, Keith, R. [CA/CA];
4172 Coventry Way, North Vancouver, British Columbia
V7N 4M9 (CA).

(74) Agents: ROBINSON, J., Christopher et al.; Smart &
Biggar, Box 11560, Vancouver Centre, Suite 2200, 650
West Georgia Street, Vancouver, British Columbia V6B
4N8 (CA).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PLASMINOGEN ACTIVATOR INHIBITOR-1 (PAI-1) HAPLOTYPES USEFUL AS INDICATORS OF PATIENT
OUTCOME

(57) Abstract: The invention provides methods and kits for obtaining a prognosis for a patient having or at risk of developing an
inflammatory condition. The method generally comprises determining a Plasminogen Activator Inhibitor-1 (PAI-1) genotype of a
patient for one or more polymorphisms in the PAI-1 gene of the patient, comparing the determined genotype with known genotypes
for the polymorphism that correspond with the ability of the patient to recover from the inflammatory condition and identifying
patients based on their prognosis. PAI-1 genotype screening may be useful in identifying patients who would benefit from increased
monitoring by healthcare professionals, and/or possible therapeutic intervention, if the patient were to develop inflammation due to
systematic inflammation response syndrome (SIRS), bacterial infection, bacteraemia, sepsis, septic shock, organ dysfunction, and
trauma. The invention also provides for methods of identifying other polymorphisms that correspond with the ability of the patients
to recover from the inflammatory condition.

WO 2004/083457 A1